

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1179402

Luminaire Tested: LDA2B159030R2040D010 2LBDC1MMS

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B159030R2040D010 2LBDC1MMS  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

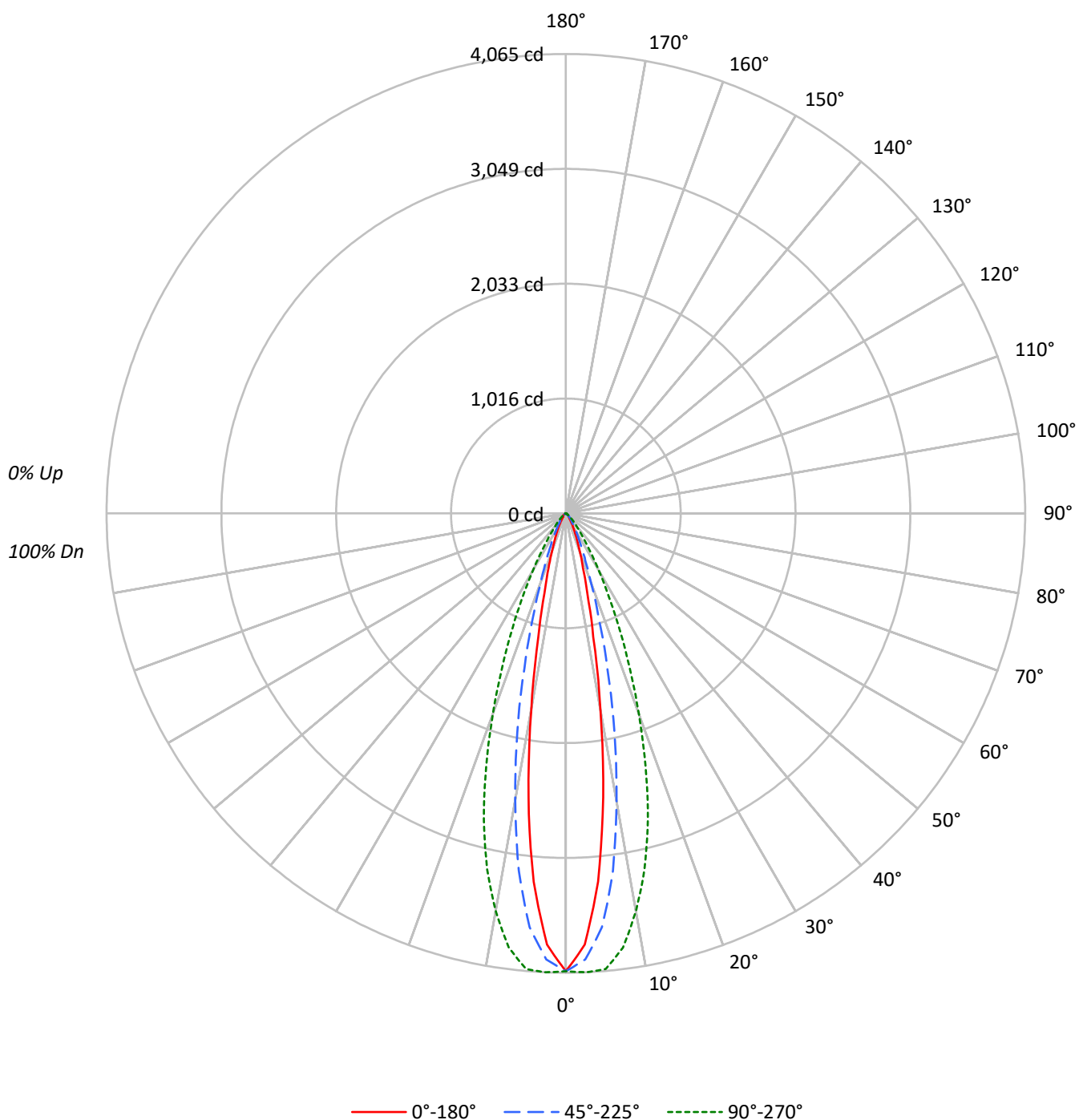
Lumens per Lamp: N/A  
Luminaire Lumens: 1141.9 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |     |     |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  | 98  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  | 94  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  |  | 94  | 92  | 89  |  | 92  | 90  | 88  | 87  |
| 4   | 102 | 95  | 91  | 88  | 100 | 94  | 90  | 87  | 92  | 89  | 86  |  | 90  | 87  | 85  |  | 89  | 86  | 84  | 83  |
| 5   | 98  | 91  | 86  | 83  | 97  | 90  | 86  | 83  | 89  | 85  | 82  |  | 87  | 84  | 81  |  | 86  | 83  | 81  | 79  |
| 6   | 94  | 87  | 83  | 79  | 93  | 87  | 82  | 79  | 85  | 81  | 78  |  | 84  | 80  | 78  |  | 83  | 80  | 77  | 76  |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 75  | 82  | 78  | 75  |  | 81  | 77  | 75  |  | 80  | 77  | 74  | 73  |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 72  | 79  | 75  | 72  |  | 78  | 75  | 72  |  | 77  | 74  | 72  | 70  |
| 9   | 85  | 78  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  |  | 76  | 72  | 69  |  | 75  | 72  | 69  | 68  |
| 10  | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  |  | 73  | 70  | 67  |  | 73  | 69  | 67  | 66  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1998905 | 1998905 | 1998905 |
| 5°  | 1620248 | 1819783 | 2004064 |
| 10° | 880910  | 1292059 | 1789575 |
| 15° | 372604  | 725032  | 1432494 |
| 20° | 190216  | 340951  | 990459  |
| 25° | 105335  | 174414  | 603700  |
| 30° | 58962   | 96846   | 329221  |
| 35° | 34149   | 58602   | 167736  |
| 40° | 25375   | 44439   | 92870   |
| 45° | 22327   | 30072   | 55050   |
| 50° | 23640   | 19879   | 29320   |
| 55° | 16945   | 13762   | 15913   |
| 60° | 10953   | 9769    | 9769    |
| 65° | 8639    | 8639    | 8639    |
| 70° | 7068    | 7068    | 7068    |
| 75° | 7053    | 7053    | 7053    |
| 80° | 7103    | 7103    | 7103    |
| 85° | 6793    | 6793    | 6793    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 55050 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 315.7  | 27.6      |
| 10°-20°   | 446.4  | 39.1      |
| 20°-30°   | 230.0  | 20.1      |
| 30°-40°   | 84.6   | 7.4       |
| 40°-50°   | 37.2   | 3.3       |
| 50°-60°   | 16.3   | 1.4       |
| 60°-70°   | 7.1    | 0.6       |
| 70°-80°   | 3.6    | 0.3       |
| 80°-90°   | 1.0    | 0.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 992.1  | 86.9      |
| 0°-40°    | 1076.7 | 94.3      |
| 0°-60°    | 1130.2 | 99.0      |
| 0°-90°    | 1141.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1141.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4052 | 4052  | 4052 | 4052  | 4052 |      |
| 5°  | 3272 | 3382  | 3674 | 3934  | 4047 | 263  |
| 15° | 730  | 848   | 1420 | 2368  | 2805 | 223  |
| 25° | 194  | 217   | 320  | 736   | 1109 | 93   |
| 35° | 57   | 65    | 97   | 170   | 278  | 39   |
| 45° | 32   | 37    | 43   | 52    | 79   | 26   |
| 55° | 20   | 17    | 16   | 17    | 18   | 18   |
| 65° | 7    | 7     | 7    | 6     | 7    | 7    |
| 75° | 4    | 4     | 4    | 4     | 4    | 4    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4051.6 | 4051.6 | 4051.6 | 4051.6 | 4051.6 |
| 2.5°  | 3819.9 | 3865.5 | 3950.5 | 4031.9 | 4065.1 |
| 5°    | 3271.6 | 3382.5 | 3674.5 | 3934.5 | 4046.6 |
| 7.5°  | 2533.5 | 2715.8 | 3189.0 | 3675.7 | 3875.4 |
| 10°   | 1758.4 | 1943.2 | 2579.1 | 3279.0 | 3572.2 |
| 12.5° | 1121.3 | 1301.2 | 1987.6 | 2839.1 | 3219.8 |
| 15°   | 729.5  | 847.8  | 1419.5 | 2368.3 | 2804.6 |
| 17.5° | 506.4  | 590.2  | 966.1  | 1869.3 | 2344.9 |
| 20°   | 362.3  | 421.4  | 649.4  | 1425.7 | 1886.5 |
| 22.5° | 262.5  | 303.1  | 451.0  | 1041.2 | 1466.4 |
| 25°   | 193.5  | 216.9  | 320.4  | 735.6  | 1109.0 |
| 27.5° | 142.9  | 157.7  | 231.7  | 507.7  | 810.8  |
| 30°   | 103.5  | 115.8  | 170.0  | 348.7  | 577.9  |
| 32.5° | 75.2   | 86.3   | 126.9  | 241.5  | 402.9  |
| 35°   | 56.7   | 65.3   | 97.3   | 170.0  | 278.5  |
| 37.5° | 46.8   | 51.8   | 80.1   | 123.2  | 197.2  |
| 40°   | 39.4   | 44.4   | 69.0   | 91.2   | 144.2  |
| 42.5° | 34.5   | 40.7   | 56.7   | 67.8   | 108.4  |
| 45°   | 32.0   | 37.0   | 43.1   | 51.8   | 78.9   |
| 47.5° | 32.0   | 30.8   | 33.3   | 39.4   | 55.5   |
| 50°   | 30.8   | 25.9   | 25.9   | 30.8   | 38.2   |
| 52.5° | 25.9   | 20.9   | 20.9   | 22.2   | 25.9   |
| 55°   | 19.7   | 17.3   | 16.0   | 17.3   | 18.5   |
| 57.5° | 14.8   | 14.8   | 13.6   | 12.3   | 13.6   |
| 60°   | 11.1   | 11.1   | 9.9    | 9.9    | 9.9    |
| 62.5° | 8.6    | 8.6    | 8.6    | 7.4    | 8.6    |
| 65°   | 7.4    | 7.4    | 7.4    | 6.2    | 7.4    |
| 67.5° | 6.2    | 6.2    | 4.9    | 6.2    | 6.2    |
| 70°   | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    |
| 72.5° | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 75°   | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 77.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 80°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 82.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 85°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)